

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P482004

Luminaire Tested: **IFLD-L-SA7B-730-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482004
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-730-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

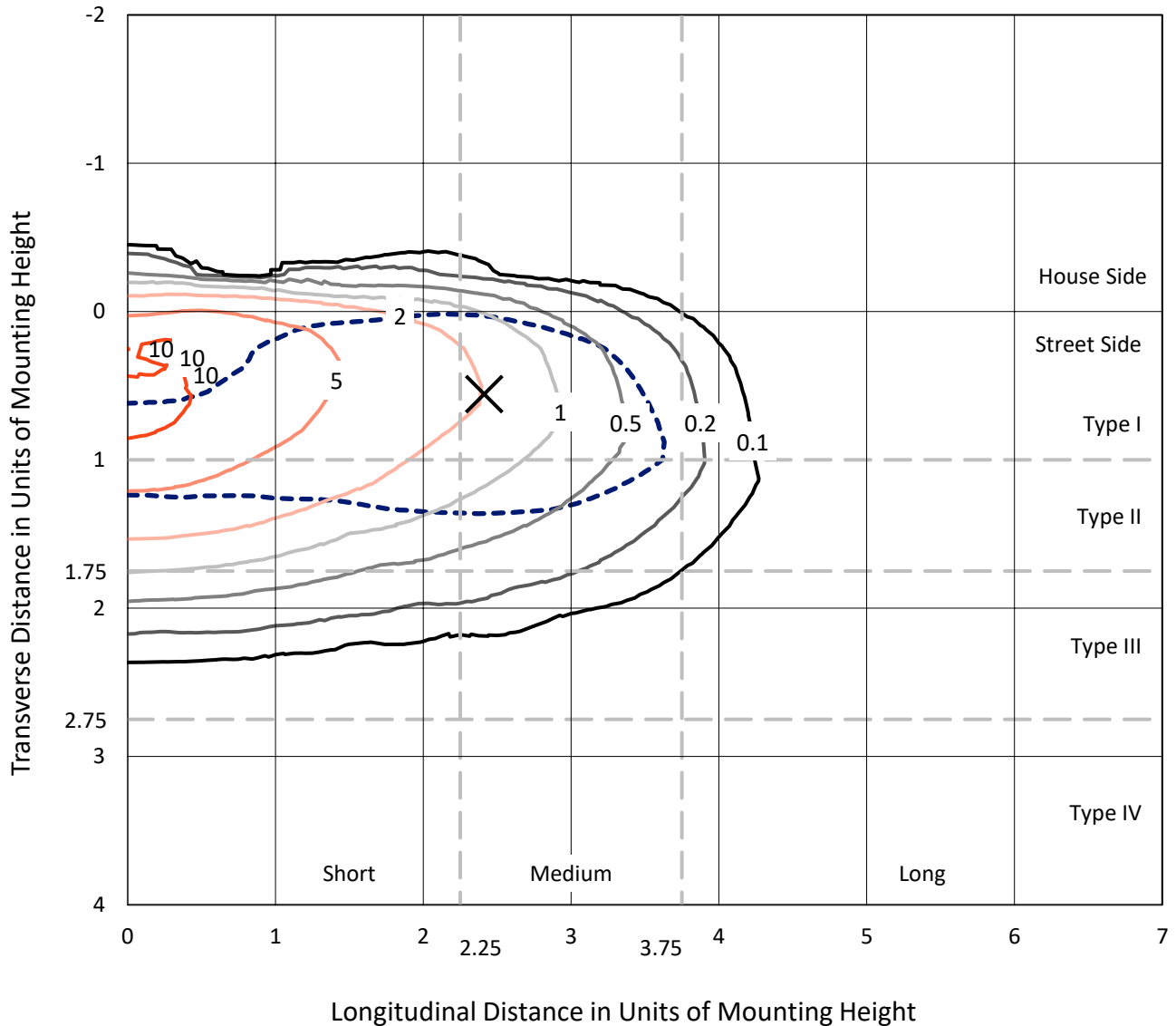
Lumens per Lamp: N/A
Luminaire Lumens: 25495.4 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

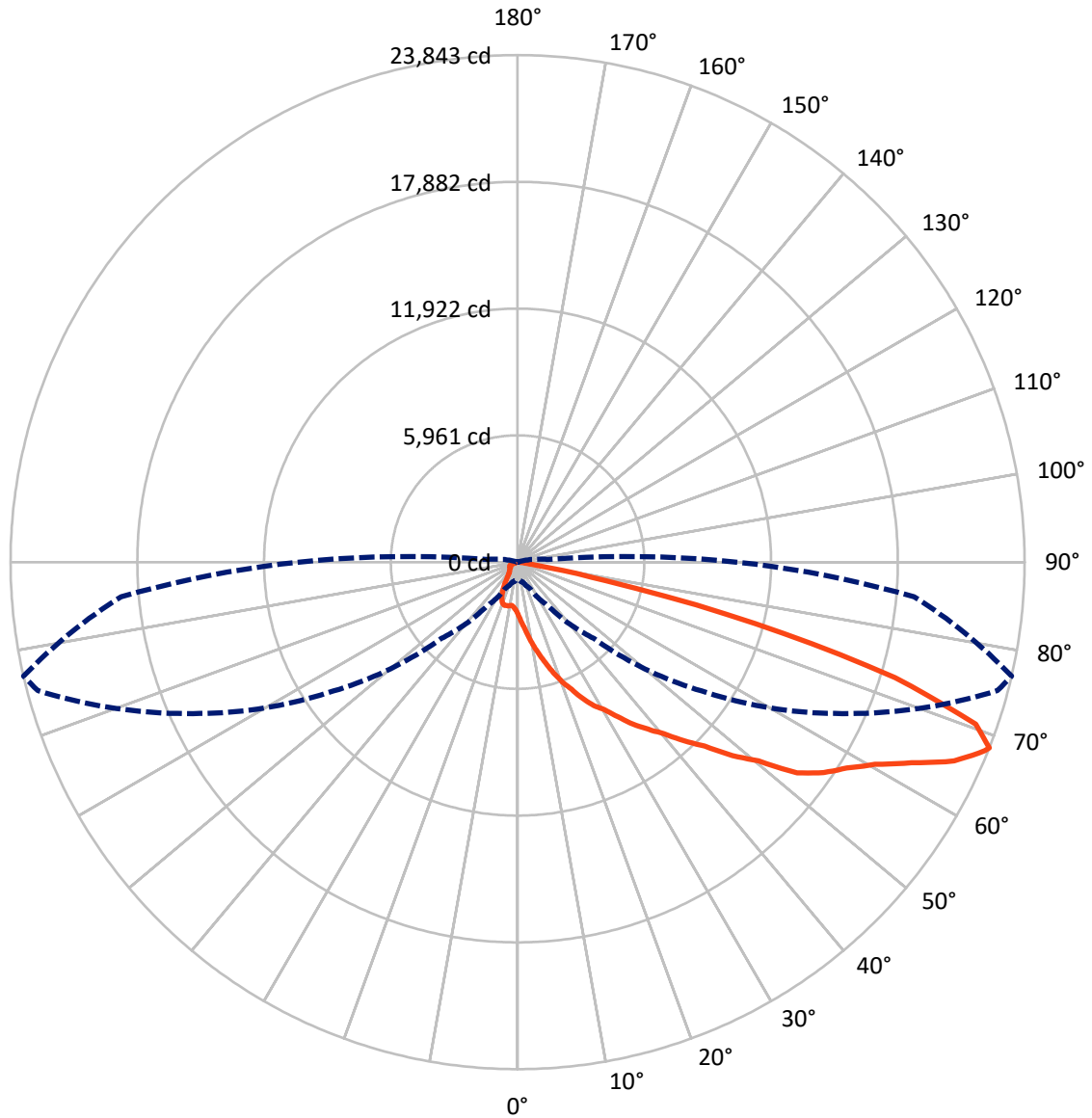
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1156.2	0.0	1156.2
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	24339.2	0.0	24339.2
	% Fixture	95.5	0.0	95.5
Total	Lumens	25495.4	0.0	25495.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.2	1.1
10°-20°	1051.8	4.1
20°-30°	2038.5	8.0
30°-40°	3553.8	13.9
40°-50°	5204.9	20.4
50°-60°	6114.9	24.0
60°-70°	5163.5	20.3
70°-80°	2001.5	7.9
80°-90°	81.4	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25495.4	100.0
0°-180°	25495.4	100.0

Coefficient of Utilization



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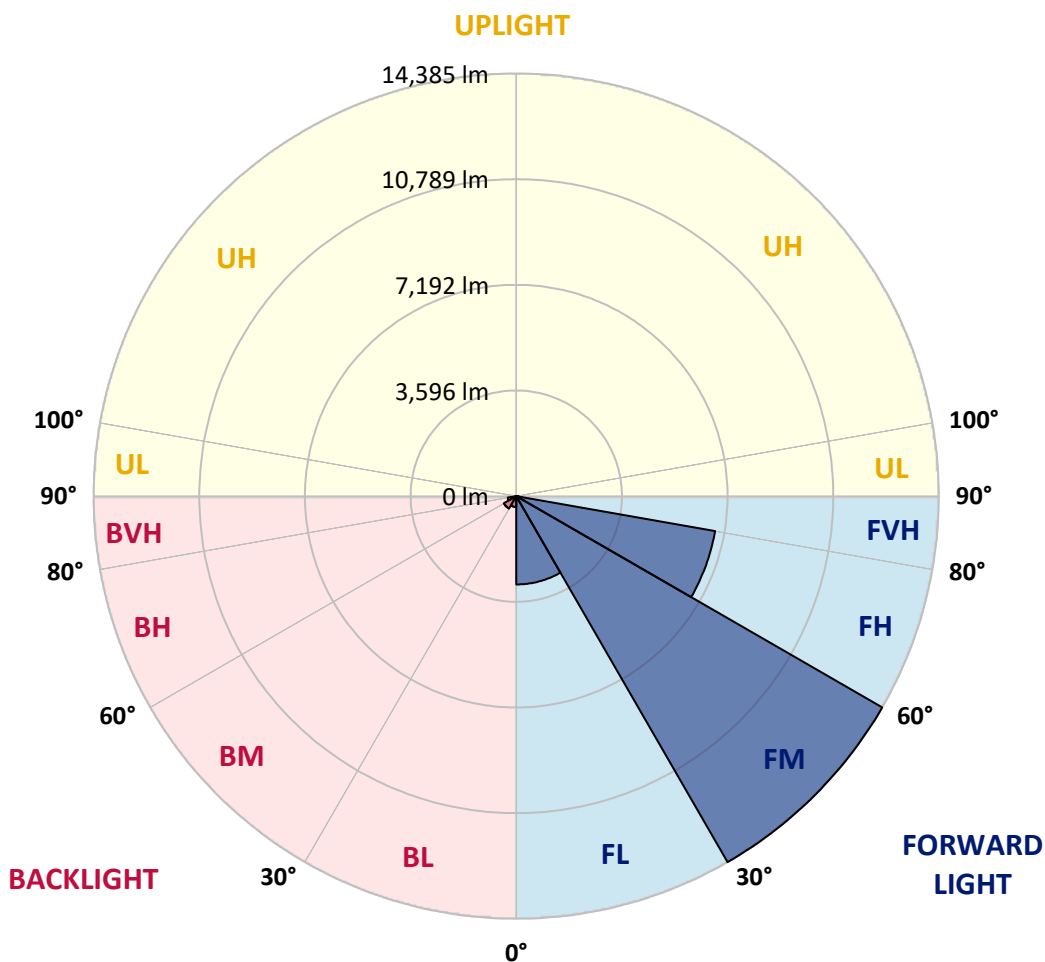
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3006.1	11.8			
FM (30°-60°)	14385.0	56.4			
FH (60°-80°)	6873.0	27.0			G3/7500
FVH (80°-90°)	75.1	0.3			G1/100
BL (0°-30°)	369.4	1.4	B1/500		
BM (30°-60°)	488.6	1.9	B1/1000		
BH (60°-80°)	291.9	1.1	B1/500		G1/500
BVH (80°-90°)	6.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2441.2	2441.2	2441.2	2441.2	2441.2	2441.2	2441.2	2441.2	2441.2	2441.2	2441.2
2.5°	3709.3	3639.0	3565.2	3544.2	3407.2	3252.6	3108.6	2968.1	2732.8	2736.3	2574.7
5°	4780.6	4692.8	4633.1	4619.0	4404.7	4137.8	3920.0	3523.1	3133.2	3045.4	2750.3
7.5°	5662.2	5634.1	5546.3	5472.6	5314.5	4987.8	4731.4	4162.4	3568.8	3470.4	2964.6
10°	6196.1	6238.3	6276.9	6182.1	6059.2	5823.8	5472.6	4857.9	4064.0	3941.1	3242.1
12.5°	6765.2	6694.9	6719.5	6796.8	6635.2	6582.5	6147.0	5574.4	4643.6	4408.3	3593.3
15°	6912.7	6940.8	7000.5	7225.3	7334.2	7183.2	6807.3	6154.0	5244.2	4917.6	3920.0
17.5°	7011.1	6997.0	7070.8	7408.0	7573.1	7717.1	7481.7	6800.3	5767.6	5476.1	4327.5
20°	7134.0	7056.7	7218.3	7432.6	7815.4	8117.5	8107.0	7450.1	6315.6	6006.5	4731.4
22.5°	7590.6	7530.9	7660.9	7682.0	7948.9	8370.4	8472.3	7980.5	6877.6	6498.2	5167.0
25°	8433.6	8542.5	8388.0	8254.5	8335.3	8612.8	8686.5	8451.2	7443.1	7095.4	5602.5
27.5°	9666.5	9652.5	9346.9	9174.8	8981.6	8946.5	8999.2	8890.3	7889.2	7639.8	5960.8
30°	10990.8	10874.9	10593.9	10179.4	9754.4	9490.9	9417.2	9304.8	8412.6	8050.8	6315.6
32.5°	12044.5	12107.8	11795.2	11254.2	10548.2	10193.4	9838.7	9715.7	8988.6	8669.0	6723.0
35°	13014.0	12929.7	12680.3	12223.7	11591.4	11018.9	10463.9	10200.5	9680.6	9364.5	7172.6
37.5°	13730.6	13836.0	13361.8	12926.2	12297.5	11823.3	11278.8	10702.8	10393.6	9972.1	7720.6
40°	14408.5	14243.4	13923.8	13523.3	12940.2	12578.5	12220.2	11321.0	11152.4	10607.9	8338.8
42.5°	14289.1	14299.6	14124.0	13800.8	13379.3	13172.1	13049.1	12072.6	11840.8	11493.1	8943.0
45°	13800.8	13843.0	13902.7	13744.6	13779.7	13572.5	13902.7	12936.7	12708.4	12339.6	9638.4
47.5°	13263.4	13333.7	13319.6	13607.6	13934.3	14004.6	14830.0	13895.7	13797.3	13593.6	10600.9
50°	12371.2	12399.3	12669.8	13193.2	13639.2	14373.4	15525.5	14942.4	15093.4	14693.0	11746.0
52.5°	10846.8	10948.6	11644.1	12392.3	13291.5	14559.5	15996.2	16498.5	16881.3	16470.4	12845.4
55°	8918.4	9058.9	9743.8	11145.3	12462.5	14278.5	16424.7	17320.4	18096.7	17475.0	13512.8
57.5°	7176.1	7190.2	7804.9	9252.1	11285.8	13727.1	16642.5	17720.8	18764.1	18265.3	14327.7
60°	5469.0	5412.8	5964.3	7218.3	9304.8	12371.2	16098.0	17924.6	19596.5	19308.5	15307.7
62.5°	3519.6	3431.8	4032.4	5254.8	7267.5	10112.6	15009.1	17928.1	20896.2	20787.3	16948.1
65°	1742.2	1682.5	2198.9	3221.0	5030.0	7734.6	13456.6	17861.3	22483.9	22554.1	18546.3
67.5°	920.3	941.4	1106.5	1633.3	2901.4	5465.5	11117.2	17078.0	23295.3	23688.7	18932.7
68°	846.5	853.6	983.5	1359.4	2518.5	5068.6	10562.3	16849.7	23358.5	23843.2	18718.4
70°	688.5	699.0	744.7	853.6	1362.9	3298.3	8149.1	14910.8	22406.6	22849.2	16944.6
72.5°	548.0	579.6	607.7	653.3	800.9	1731.7	5068.6	11619.5	18511.2	18560.3	13189.6
75°	418.0	442.6	498.8	537.4	625.2	951.9	2413.1	7084.8	12146.4	11549.3	7769.8
77.5°	323.2	344.2	368.8	421.5	523.4	642.8	737.6	3006.7	5159.9	4246.7	2195.3
80°	193.2	207.2	288.0	330.2	456.6	435.6	291.5	836.0	1046.7	825.5	400.4
82.5°	112.4	122.9	165.1	252.9	319.6	235.3	172.1	259.9	256.4	224.8	133.5
85°	3.5	7.0	91.3	151.0	112.4	63.2	105.4	108.9	91.3	84.3	59.7
87.5°	0.0	3.5	24.6	21.1	24.6	14.1	21.1	28.1	35.1	31.6	24.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2441.2	2441.2	2441.2	2441.2	2441.2	2441.2	2441.2	2441.2	2441.2	2441.2	2441.2
2.5°	2465.8	2388.5	2216.4	2086.5	1946.0	1861.7	1777.4	1724.7	1696.6	1679.0	1693.1
5°	2529.0	2367.5	2090.0	1844.1	1682.5	1573.6	1464.7	1408.5	1355.8	1327.7	1345.3
7.5°	2669.5	2427.2	1967.0	1700.1	1510.4	1341.8	1204.8	1095.9	1032.7	976.5	987.0
10°	2841.7	2462.3	1970.5	1615.8	1341.8	1074.8	881.7	744.7	667.4	618.2	614.7
12.5°	3017.3	2599.3	1984.6	1531.5	1134.6	807.9	579.6	477.7	432.0	407.5	407.5
15°	3284.2	2722.2	1949.5	1376.9	860.6	526.9	396.9	361.8	344.2	323.2	326.7
17.5°	3516.1	2918.9	1931.9	1145.1	590.1	379.4	330.2	291.5	274.0	252.9	252.9
20°	3828.7	3041.9	1837.1	885.2	407.5	316.1	267.0	231.8	203.7	186.2	189.7
22.5°	4113.2	3136.7	1668.5	604.2	312.6	249.4	196.7	161.6	137.0	115.9	119.4
25°	4422.3	3231.5	1422.6	372.3	221.3	154.6	105.4	77.3	52.7	38.6	38.6
27.5°	4643.6	3259.7	1102.9	221.3	133.5	70.3	24.6	3.5	0.0	0.0	0.0
30°	4868.4	3270.2	762.2	119.4	52.7	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5124.8	3266.7	477.7	63.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	5321.5	3207.0	228.3	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5620.1	3119.1	70.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5960.8	2961.1	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6266.4	2799.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6614.1	2599.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7225.3	2515.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8022.7	2448.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8514.4	2251.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8770.8	2047.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9150.2	1949.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9712.2	1956.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10590.4	2054.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11075.1	1956.5	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10664.1	1566.6	66.7	17.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0
68°	10309.3	1440.1	66.7	17.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	8521.5	937.9	63.2	17.6	7.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6206.7	519.9	52.7	14.1	7.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3610.9	259.9	38.6	14.1	7.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	941.4	130.0	31.6	17.6	10.5	3.5	0.0	0.0	0.0	0.0	0.0
80°	186.2	84.3	28.1	21.1	14.1	7.0	0.0	0.0	0.0	0.0	0.0
82.5°	87.8	59.7	28.1	21.1	17.6	10.5	3.5	0.0	0.0	0.0	0.0
85°	45.7	28.1	28.1	21.1	21.1	14.1	7.0	0.0	0.0	0.0	0.0
87.5°	21.1	10.5	10.5	10.5	10.5	7.0	3.5	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)